DT09 Rec'd PCT/PT0 2.8 SEP 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE 10/509115

Applicant: Albert E. Sanderson et al.

Art Unit : Unknown

Serial No.: Not Yet Assigned

Examiner: Unknown

Filed

: Herewith

Title

: VARIABLE STROKE/CLEARANCE MECHANISM

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449. A copy of communications from a foreign patent office in a counterpart application are also enclosed.

This statement is being filed with the application. Accordingly, only copies of foreign patent documents and non-patent literature are enclosed. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 9/28/04

Reg. No. 38,524 46,031

Fish & Richardson P.C. 1425 K Street, N.W. 11th Floor

Washington, DC 20005-3500 Telephone: (202) 783-5070 Facsimile: (202) 783-2331

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Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 09850-016US1

Herewith

A No. A No. Not Yet Assigned 15 Not Yet Assigned 15 Not Yet Assigned 28 SEP 2004

Information Disclosure Statement
by Applicant
(Use several sheets if necessary)

Applicant Albert E. Sanderson et al.

Albert E. Sanderson et al. Filing Date

Group Art Unit

(37 CFR §1.98(b))

				nt Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	748,559	12/29/1903	Peet			
	AB	812,636	2/13/1906	Callan			
	AC	821,546	5/22/1906	Smallbone			
	AD	1,019,521	3/5/1912	Pratt			
	AE	1,161,152	11/23/1915	Nyborg			
	AF	1,194,258	8/8/1916	Walker			
	AG	1,210,649	1/2/1917	Holley et al.			
	AH	1,255,973	2/12/1918	Almen			
	AI	RE15,442	9/5/1922	Almen			
	AJ	1,577,010	3/16/1926	Whatley			
	AK	1,648,000	11/8/1927	Lee			
	AL	1,659,374	2/14/1928	Robson			
	AM	1,673,280	6/12/1928	Evans			
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	AO	1,842,322	1/19/1932	Hulsebos			
	AP	1,857,656	5/10/1932	Oldfield			
	AQ	1,894,033	1/10/1933	Farwell			
	AR	1,968,470	7/31/1934	Szombathy			
	AS	2,042,730	6/2/1936	Redrup			
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	AV	2,112,934	2/23/1937	Stinnes et al.			
	AW	2,151,614	9/17/1937	Nevatt et al.			
	AX	2,247,527	11/10/1939	Stinnes			
	AY	2,256,079	9/16/1941	Dinzl			
	AZ	2,263,561	11/25/1941	Biermann			
	BA	2,282,722	1/30/1940	Hall			

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Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 09850-016US1

Information Disclosure Statement by Applicant

(Use several sheets if necessary)

Applicant DT09 Rec'd PCT/PT0 28 SFP 2004 Filing Date

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Group Art Unit

(37 CFR §1.98(b))

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Date Considered

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Sheet <u>3</u> of <u>9</u>

28 SEP 2004

Substitute Form PTO-1449 (Modified)

(37 CFR §1.98(b))

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No.
09850-016US1

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Information Disclosure Statement by Applicant

(Use several sheets if necessary)

Albert E. Sanderson et al.

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CE	3,861,829	1/21/1979	Roberts et al.		
CF	3,877,839	4/15/1975	Ifield		
CG	3,939,809	2/24/1976	Rohs		
СН	3,945,359	3/23/1976	Asaga		
CI	3,959,983	6/1/1976	Roberts et al.		
Cì	3,968,699	7/13/1973	van Beukering		
CK	3,969,046	7/13/1976	Wynn		
CL	3,974,714	8/17/1976	Fritsch		
СМ	4,011,842	3/15/1977	Davies et al.		
CN	4,060,178	11/29/1977	Miller		
СО	4,066,049	1/3/1978	Teodorescu et al.		
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CQ	4,077,269	3/7/1978	Hodgkinson		
CR	4,094,202	6/13/1978	Kemper		
CS	4,100,815	7/18/1978	Kemper		
СТ	4,112,826	9/12/1978	Cataldo		
CU	4,144,771	3/20/1979	Kemper et al.		
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 CW	4,168,632	9/25/1979	Fokker		
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DC	4,231,724	11/4/1980	Hope et al.		
DD	4,235,116	11/25/1980	Meijer et al.		
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Sheet <u>4</u> of <u>9</u>

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. 09850-016US1

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Information Disclosure Statement by Applicant

Applicant DT09 Rec'd PCT/PT0 2.8 SEP 2004

(Use several sheets if necessary)

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(37 CFR §1.98(b))

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EB 4,602,174 07/22/1986 Redlich	
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ED 4,715,791 12/29/1987 Berlin et al.	
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EI 4,852,418 8/1/1989 Armstrong	
EJ 4,869,212 9/26/1989 Sverdlin	

Examiner Signature	Examin	er Sig	gnature
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U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 09850-016US1

Information Disclosure Statement by Applicant

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Applicant DT09 Rec'd PCT/PT0 28 SEP 2004 Albert E. Sanderson et al. Filing Date Herewith

Group Art Unit

(37 CFR §1.98(b))

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Information Disclosure Statement by Applicant

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Albert E. Sanderson et al.

28 SEP 2004

(Use several sheets if necessary)

Filing Date Herewith **Group Art Unit**

(37 CFR §1.98(b))

	FN	5,572,904	11/12/1996	Minculescu	
	FO	5,596,920	1/28/1997	Umemura et al.	
	FP	5,605,120	2/25/1997	Hedelin	
	FQ	5,630,351	5/20/1997	Clucas	
	FR	5,634,852	6/3/1997	Kanamaru	
	FS	5,676,037	10/14/1997 .	Yoshizawa	
	FT	5,699,715	12/23/1997	Forster	
	FU	5,699,716	12/23/1997	Ota et al.	
	FV	5,704,274	1/06/1998	Forster	
	FW	5,762,039	6/9/1998	Gonzalez	
	FX	5,768,974	6/23/1998	Ikeda et al.	
	FY	5,782,219	7/21/1998	Frey, et al.	
	FZ	5,785,503	7/28/1998	Ota et al.	
	GA	5,818,132	10/06/1998	Konotchick	
	GB	5,839,347	11/24/1998	Nomura et al.	
	GC	5,890,462	4/6/1999	Bassett	
	GD	5,894,782	4/20/1999	Nissen et al.	
	GE	5,897,298	4/27/1999	Umemura	
	GF	5,927,560	7/27/1999	Lewis et al.	
	GG	5,931,645	8/3/1999	Goto et al.	
	GH	6,012,903	1/11/2000	Boelkins	
	GI	6,053,091	4/25/2000	Тојо	
	GJ	6,065,433	5/23/2000	Hill	
	GK	6,074,174	6/13/2000	Lynn et al.	
	GL	6,155,798	12/5/2000	Deininger et al.	
	GM	6,397,794	6/4/2002	Sanderson et al.	
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	GO	US-2002- 0106238	8/8/2002	Sanderson et al.	
1	GP	6,446,587	9/10/2002	Sanderson et al.	1

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Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 09850-016US1

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Information Disclosure Statement by Applicant

Applicant DT09 Rec'd PCT/PT0
Albert E. Sanderson et al.

28 SEP 2004

(Use several sheets if necessary)

(37 CFR §1.98(b))

Filing Date Herewith Group Art Unit

GQ	6,460,450	10/8/2002	Sanderson et al.
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GS	US-2003- 0084785	05/08/2003	Sanderson et al.
GT	US-2003- 0138331	07/24/2003	Sanderson et al.

	Foreig	n Patent Doo	uments or P	ublished Foreign	Patent A	Application	ns		
Examiner	Desig.	Document	Publication	Country or			Trans	Translation	
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No	
	GU	EP 0052387	10/18/1981	European					
	GV	461,343	12/26/1913	France					
	GW	815,794	04/1937	France			Х		
	GX	1 015 857	10/27/1952	France					
	GY	1,416,219	9/20/1965	France			Х		
	GZ	1,450,354	7/18/1966	France			Х		
	НА	2,271,459	11/9/1973	France			Х		
•	НВ	2 300 262	2/4/1975	France			Х		
	НС	2,453,332	4/6/1979	France			Х		
	HD	2 566 460	12/1985	France			Х		
	HE	FR 2 649 755	01/18/1991	France					
	HF	89,352	12/31/1895	Germany					
	HG	345,813	7/25/1917	Germany			х		
	нн	515,359	12/18/1930	Germany					
	ні	698,243	10/1940	Germany					
	HJ	1 037 799	12/1/1958	Germany			Х	_	
	HK	1,451,926	5/7/1965	Germany			Х	-	
	HL	DT 2346836 A1	03/1975	Germany			х		
	НМ	DE 2612270	09/22/1977	Germany			х		
	HN	DE 27 51 846	11/19/1977	Germany			Х		
	НО	DE 29 31 377	2/26/1981	Germany			Х		

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Sheet <u>8</u> of <u>9</u>

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(37 CFR §1.98(b))

Filing Date Herewith **Group Art Unit**

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	HP	DE 3420529	12/05/1985	Germany	X
	HQ	DE 37 00 005	7/14/1988	Germany	x
	HR	282,125	12/1927	Great Britain	
	HS	GB 651893	04/11/1951	Great Britain	
	НТ	55-37541	9/9/1978	Japan	x
	HU	60-164677	8/27/1985	Japan	х
	HV	61-212656	9/20/1986	Japan	х
	HW	62-113938	4/25/1987	Japan	х
	НХ	JP 09151840	06/10/1997	Japan	х
	HY	121,961	1/8/1920	United Kingdom	
	HZ	220,594	3/1924	United Kingdom	
	IA	629,318	9/1947	United Kingdom	
	IB	GB 2030254	10/3/1978	United Kingdom	
_	IC	1,595,600	8/21/1981	United Kingdom	
	ID	WO 91/02889	03/07/1991	WIPO	
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	IF	WO 97/10415	3/20/1997	WIPO	
	IG	WO 99/14471	03/25/1999	WIPO	
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	IK	WO 03/100231	12/04/2003	WIPO	

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Examiner	Desig.					
Initial	ID	Document				
	IL	Advanced diaphragm metering pump technology for lower pressure applications, LEWAecodos®				
	IM	Bloomfield, Louis A., "How Things Work: Electric Motors," howthingswork. Virginia.edu, October 25, 2001, http://rabi.phys.virginia.edu/HTW/electric_motors.html.				
	IN	Den Hartog, J.P. (Jacob Pieter), "Problem 144" 1956 New York				
	Ю	ECycle Inc. schematic				

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with	

Sheet 9 of 9

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IX

(37 CFR §1.98(b))

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 09850-016US1

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Applicant

Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication) Examiner Desig. Initial ID Document Freudenstein, "Development of an Optimum Variable-Stroke Internal-Combustion Engine ΙP Mechanism from the Viewpoint...," Journal of Mechanisms, Transmissions, and Automation in Design, vol. 105, pp. 259-266, 1984. Freudenstein, "Kinematic Structure of Mechanisms for Fixed and Variable-Stroke Axial-Piston Ю Reciprocating Machines," Journal of Mechanisms, Transmissions, and Automation in Design, VI. 106, pp. 355-363, 1984. IR Metering Pumps, LEWA modular®, American Lewa, The Technology Advantage. Red Barn Engineering Presents, "Internal Combustion Motor with Integral Electric Generator For Use In Electric Vehicles," The MOGEN - Motor Generator - Hybrid Vehicles. IS http://www.mogen.net/index.shtml, copyright 1998. Redlich, Robert, "A Summary of Twenty Years Experience with Linear Motors and Alternators." IT Sunpower, Inc., Athens, Ohio, U.S.A., 1996, http://www.sunpower.com/tech_papers/pub64/linmot.html. Sunpower, Inc., "High Efficiency, Oil-Free Compressor: Better Machines for A Better World, " IU

http://www.sunpower.com/compressors/compressor/index.html.

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